FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 1 of 7	ATTORNEY DOCKET NO.	SERIAL NO.
	29250-000998/US	10/661,670
	APPLICANT	
	Yigal BEJERANO et al.	
	FILING DATE	GROUP
	09/15/2003	Unknown

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
		M. Mouly and M. B. Pautet. *The GSM System For Mobile Communication*. Telecom Publishing, France, June 1992.
		I. F. Akyildiz, J. McNair, J. S. M. Ho, H. Uzunalioglu, and W. Wang. Mobility management in next generation wireless systems. *IEEE Proceedings Journal*, 87(8):1347-1385, August 1999.
		3GPP, Boston, MA, USA and London, UK. *3GPP TS 23.012 V5.0.0, 3rd Generation Partnership Project, Technical Specification Group Core Network, Location Management Procedures (Release 5)*, March 2001.
		B. Jabbari, G. Colombo, A. Nakajima, and J. Kulkarni. Network issues for wireless communication. *IEEE Communications Magazine*, 33(1):88-99, January 1995.
		R. Steele, J. Whitehead, and W. C. Wong. Network issues for wireless communication. *IEEE Communications Magazine*, 33(1):80-87, January 1995.
		S. Okasaka, S. Onoe, S. Yasuda, and A. Maebara. A new location updating method for digital cellular systems. In *Proceeding of the IEEE 41st Vehicular Technology Conference, VTC'41*, pages 345-350, St. Louis, Missouri, May 1991.
		P.G. Escalle, V.C. Giner, and J. M. Oltra. Reducing location updates and paging costs in a pcs network. *IEEE Transaction on Wireless Communications*, 1(1):200-209, January 2002.
		M. Shirota, Y. Yoshida, and F. Kubota. Statistical paging area selection scheme (spas) for cellular mobile communication systems. In *Proceeding of the IEEE 44th Vehicular Technology Conference, VTC'44*, volume 1, pages 367-370, 1994.
		S. Mishra and O. K. Tonguz. Most recent interaction area and speed-based intelligent paging in pcs. In *Proceeding of the IEEE 47th Vehicular Technology Conference, VTC'47*, volume 2, pages 505-509, 1997.
		C. Rose and R. Yates. Minimizing the average cost of paging under delay constraints. *ACM-Baltzer Journal of Wireless Networks*, 1(2):211-219, July 1995.

Examiner: [signature] Date Considered: 6/30/2005

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Sheet 2 of 7

ATTORNEY DOCKET NO.	SERIAL NO.
29250-00998/US	10/661,670
APPLICANT	
Yigal BEJERANO et al.	
FILING DATE	GROUP
September 15, 2003	

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
—		Y. Bejerano and I. Cidon. Efficient location management based on moving location areas. In *Proceedings of IEEE INFOCOM'01*, pages 3-12, Anchorage, Alaska, USA, April 2001.
—		Hai Xie, Sami Tabbane, and David J. Goodman. Dynamic location area management and performance analysis. In *Proceeding of the IEEE 43rd Vehicular Technology Conference, VTC'43*, pages 536-539, May 1993.
—		Z. Lei and C. Rose. Wireless subscriber mobility management using adaptive individual location areas for pcs systems. In *IEEE International Conference on Communications, ICC'98*, volume 3, pages 1390-1394, 1998.
—		Z. Lei, C. U. Saraydar, and N. B. Mandayam. Paging area optimization based on internal estimation in wireless personal communication networks. *ACM-Baltzer Journal of Mobile Networks and Applications*, 5(1):85-99, March 2000.
—		J. Ming-Hui, H. Jorng-Tzong, and H-K. Wu. Personal paging area design based on mobiles moving behaviors. In *Proceedings of IEEE INFOCOM'01I*, volume 1, pages 21-30, Anchorage, Alaska, USA, April 2001.
—		S. Tabbane. An alternative strategy for location tracking. *IEEE Journal on Selected Areas in Communications, JSAC*, 13(5):880-892, June 1995.
—		G. P. Pollini and I. Chih-Lin. A profile-based location strategy and its performance. *IEEE Journal on Selected Areas in Communications, JSAC*, 15(8):1415-1424, October 1997.
—		S. K. Sen, A. Bhattacharya, and S. K. Das. A selective location update strategy for pcs users. *ACM-Baltzer Journal of Wireless Networks*, 5(5):313-326, October 1999.

Examiner: _____ Date Considered: 6/30/2005

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Sheet 3 of 7

ATTORNEY DOCKET NO.	SERIAL NO.
29250-00998/US	10/661,670
APPLICANT	
Yigal BEJERANO et al.	
FILING DATE	GROUP
September 15, 2003	

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's, Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
—		A. Bhattacharya and S. K. Das. Lez-update: An information-theoritic approach to track mobile users in pcs networks. In *Proceedings ACM/IEEE MobiCom'99*, pages 1-12, Seattle, WA, August 1999.
—		A. Bar-Noy, I. Kessler, and M. Sidi. Mobile users: To update or not update? *ACM-Baltzer Journal of Wireless Networks*, 1(2):175-185, July 1995.
—		I. F. Akyildiz and J. S. M. Ho. Dynamic mobile user location update for wireless pcs networks. *ACM-Baltzer Journal of Wireless Networks*, 1(2):187-196, July 1995.
—		I. F. Akyildiz, J. S. M. Ho and Y. Lin. Movement-based location update and selective paging for pcs networks. *IEEE/ACM Transactions on Networking, ToN*, 4(4):629-638, August 1996.
—		I. F. Akyildiz and J. S. M. Ho. A mobile user location update and paging mechanism under delay constrains. *ACM-Baltzer Journal of Wireless Networks*, 1(4):413-425, December 1995.
—		B. Liang and Z. J. Haas. Predictive distance-based mobility management for pcs networks. In *Proceedings of IEEE INFOCOM'01*, volume 3, pages 1377-1384, New York, NY, USA, March 1999.
—		G. Wan and E. Lin. Cost reduction in location management using semi-realtime movement information. *ACM-Baltzer Journal of Wireless Networks*, 5(2):245-256, July 1999.
—		Z. Lei and C. Rose. Probability criterion based location tracking approach for mobility management of personal communication systems. In *IEEE Global Telecommunications Conference, GLOBECOM '97*, volume 2, pages 977-981, 1997.

Examiner: _____ Date Considered: 6/30/05

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Sheet 4 of 7

ATTORNEY DOCKET NO.	SERIAL NO.
29250-00998/US	10/661,670
APPLICANT	
Yigal BEJERANO et al.	
FILING DATE	GROUP
September 15, 2003	

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
—		V. Wong and V. Leung. Location management for next-generation personal communications network. *IEEE Network*, pages 18-24, September/October 2000.
—		R. Thomas, H. Gilbert and G. Mazziotto. Influence of the moving of the mobile stations on the performance oa a radio mobile cellular network. In *Proceedings 3rd Nordic Seminar*, Copenhagen, Denmark, September 1998.
—		E. Alonso, K. S. Meier-Hellstern, and G. P. Pollini. Influence of cell geometry on handover and registration rates in cellular and universal personal telecommunications networks. In *Proceedings 8th Int. Teletraffic Seminar*, pages 261-270, Genova, Italy, October 1992.
—		M. Vudali. The location area design problem in cellular and personal communications systems. In *5th IEEE International Conference on Universal Personal Communications*, volume 2, pages 591-595, 1996.
—		Chih-Lin I, Gregory P. Pollini, and Richard D. Gitlin. Pcs mobility management using the reverse virtual call setup algorithm. *IEEE/ACM Transactions on Networking, ToN*, 5(1):13-24, February 1997.
—		C. U. Saraydar and C. Rose. Location area design using population and traffic data. In *Proceedings of Conference on Information and Science and Systems, CISS 1998*, pages 739-744, Prinston, NJ, USA, March 1998.
—		P. R. L. Gondim. Genetic algorithm and the location area partition problem in cellular networks. In *Proceeding of the IEEE 46th Vehicular Technology Conference, VTC'46*, volume 3, pages 1835-1838, 1996.

Examiner: [signature] Date Considered: 6/30/05

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449)	ATTORNEY DOCKET NO.	SERIAL NO.
	29250-00998/US	10/661,670
PATENT AND TRADEMARK OFFICE	APPLICANT	
INFORMATION DISCLOSURE CITATION	Yigal BEJERANO et al.	
(Use several sheets if necessary)	FILING DATE	GROUP
Sheet 5 of 7	September 15, 2003	

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
—		P. Demestichas, E. Tzifa, V. Demesticha, N. Georgantas, G. Kotsakis, M. Kilanioti, M. Striki, M. E. Anagnostou, and M. E. Theologou. Control of the location update and paging signaling load in cellular systems by means of planning tools. In *Proceeding of the IEEE 49th Vehicular Technology Conference, VTC'49*, volume 4, pages 2119-2123, 1999.
—		I. Demirkol, C. Ersoy, M. U. Caglayan, and H. Delic. Location area planning in cellular networks using simulated annealing. In *Proceedings of IEEE INFOCOM'01*, Anchorage, Alaska, April 2001.
—		J. Plehn. The design of location areas in a gsm-network. In *Proceeding of the IEEE 45th Vehicular Technology Conference, VTC'45*, volume 2, pages 871-875, 1995.
—		I. G. Tollis. Optimal partitioning of cellular networks. In *IEEE International Conference on Communications, ICC'96*, volume 3, pages 1377-1381, 1996.
—		M. Munguia-Macario, D. Munoz-Rodriguez, and C. Molina. Optimal adaptive location area design and inactive locations areas. In *Proceeding of the IEEE 47th Vehicular Technology Conference, VTC'47*, volume 1, pages 510-514, 1997.
—		C. U. Saraydar, O. E. Kelly, and C. Rose. One-dimensional location area design. *IEEE Transactions on Vehicular Technology*, 49(5):1626-1632, September 2000.
—		M. R. Garey and D. S. Johnson, *Computers and Intractability: A Guide to the Theory of NP-completeness*. Freeman Publication, New York, 1979.

Examiner: _____ Date Considered: 6/30/05

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 6 of 7

ATTORNEY DOCKET NO.	SERIAL NO.
29250-00998/US	10/661,670
APPLICANT	
Yigal BEJERANO et al.	
FILING DATE	GROUP
September 15, 2003	

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
—		M. M. Deza and M. Laurent. *Geometry of cuts and metrics*. Springer-Verlag, Berlin-Heidelberg, 1997.
—		V. V. Vazirani. *Approximation algorithms*. Springer-Verlag, 2001.
—		V. V. Vazirani, N. Garg and M. Yannakakis. Approximate max-flow min-(multi) cut theorems and their applications. *SIAM J. Computing*, 25-235-251, 1996.
—		S. Plotkin, P. Klein, and S. Rao. Excluded minors, network decomposition, and multicommodity flow. In *Proceeding of the 25th ACM symposium on Theory of Computing*, pages 682-690, 1993.
—		E. Tardos and V. V. Vazirani. Improved bounds for the max-flow min-multicut for planar and $k_{r,r}$-free graphs. *Information Processing Letters*, 47:77-80, 1993.
—		B. Efron and R. J. Tibshirani. *An Introduction to the Bootstrap*. Chapman & Hall, New York, NY, first edition, 1993.
—		Moses Charikar, Venkatesan Guruswami, and Anthony Wirth. Clustering with qualitative information. *IEEE Symposium on Foundations of Computer Science*, 2003.
—		Erik D. Demaine and Nicole Immorlica. Correlation clustering with partial information. *Approximation Algorithms for Combinatorial Optimization Problems (APPROX)*, 2003.

Examiner: _____ Date Considered: 6/30/05

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 7 of 7

ATTORNEY DOCKET NO.	SERIAL NO.
29250-00998/US	10/661,670
APPLICANT	
Yigal BEJERANO et al.	
FILING DATE	GROUP
September 15, 2003	

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
—		Dotan Emmanuel and Amos Fiat. Correlation clustering – minimizing disagreements on arbitrary weighted graphs. *European Symposium on Algorithms*, 2003.
—		Nikhil Bansal, Avrim Blum, and Shuchi Chawla. Correlation clustinger, *IEEE Symposium on Foundations of Computer Science*, 2002.

Examiner: [signature] Date Considered: 6/30/05

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.